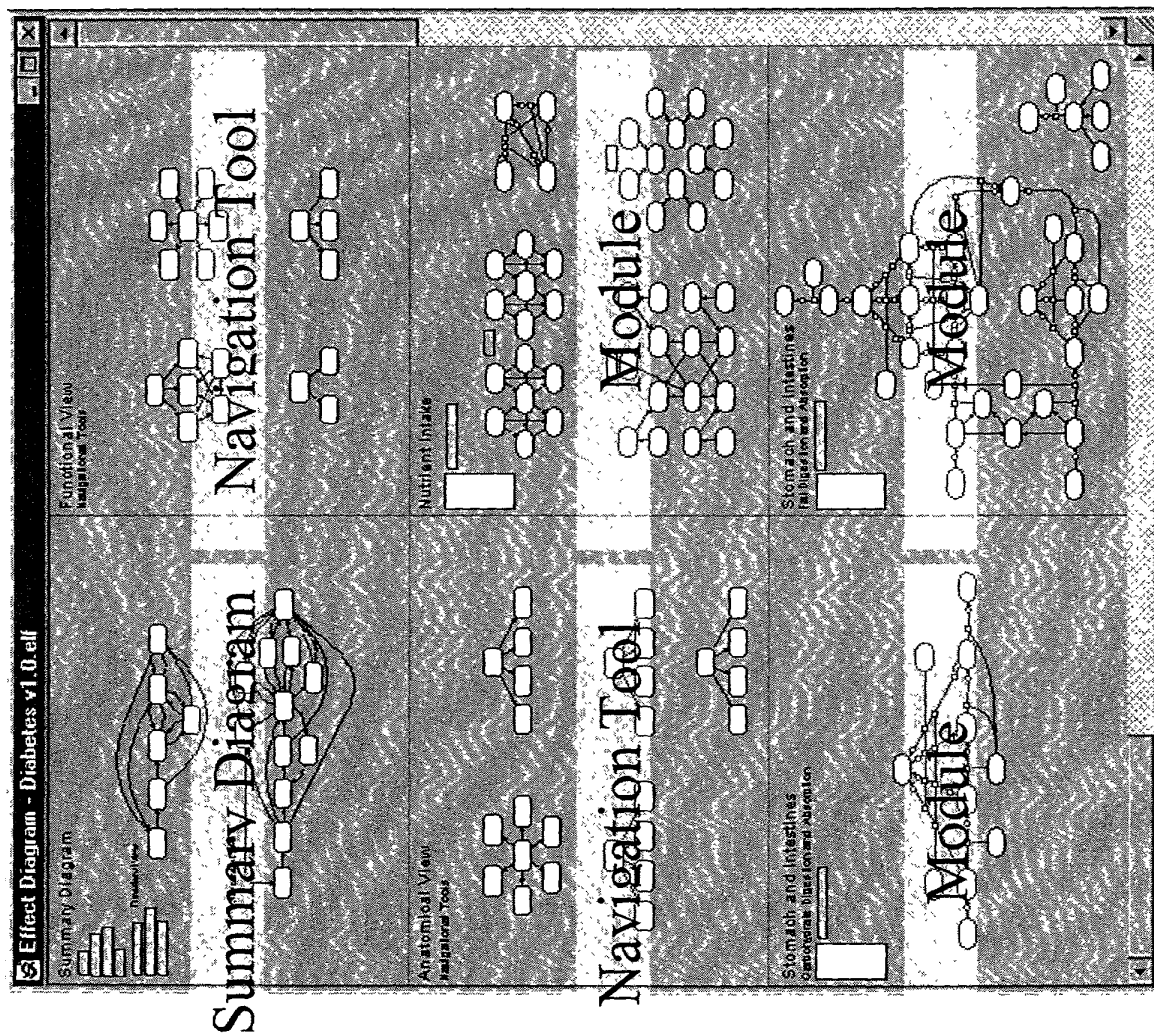


FIG. 1



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FIG. 2

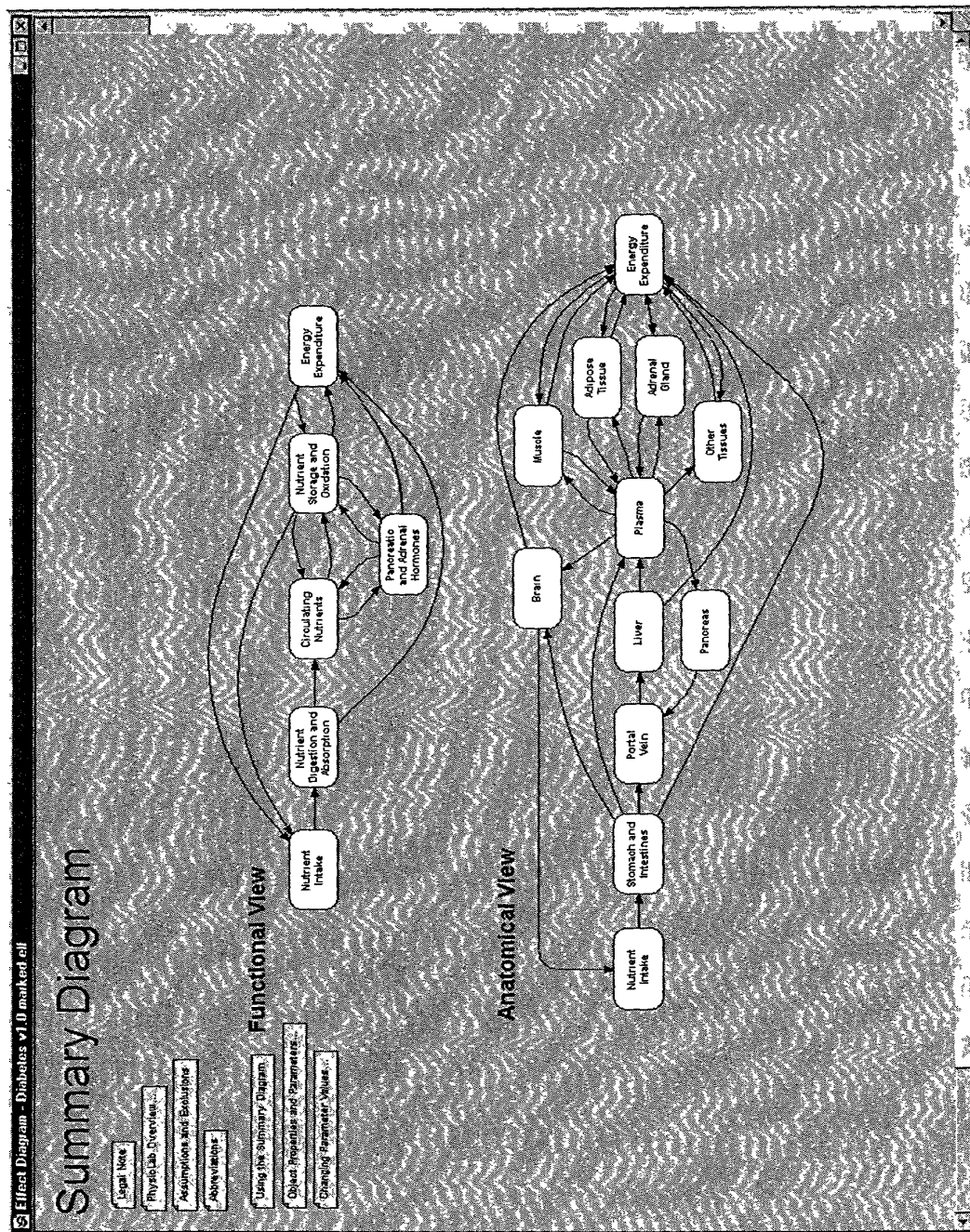


FIG. 3

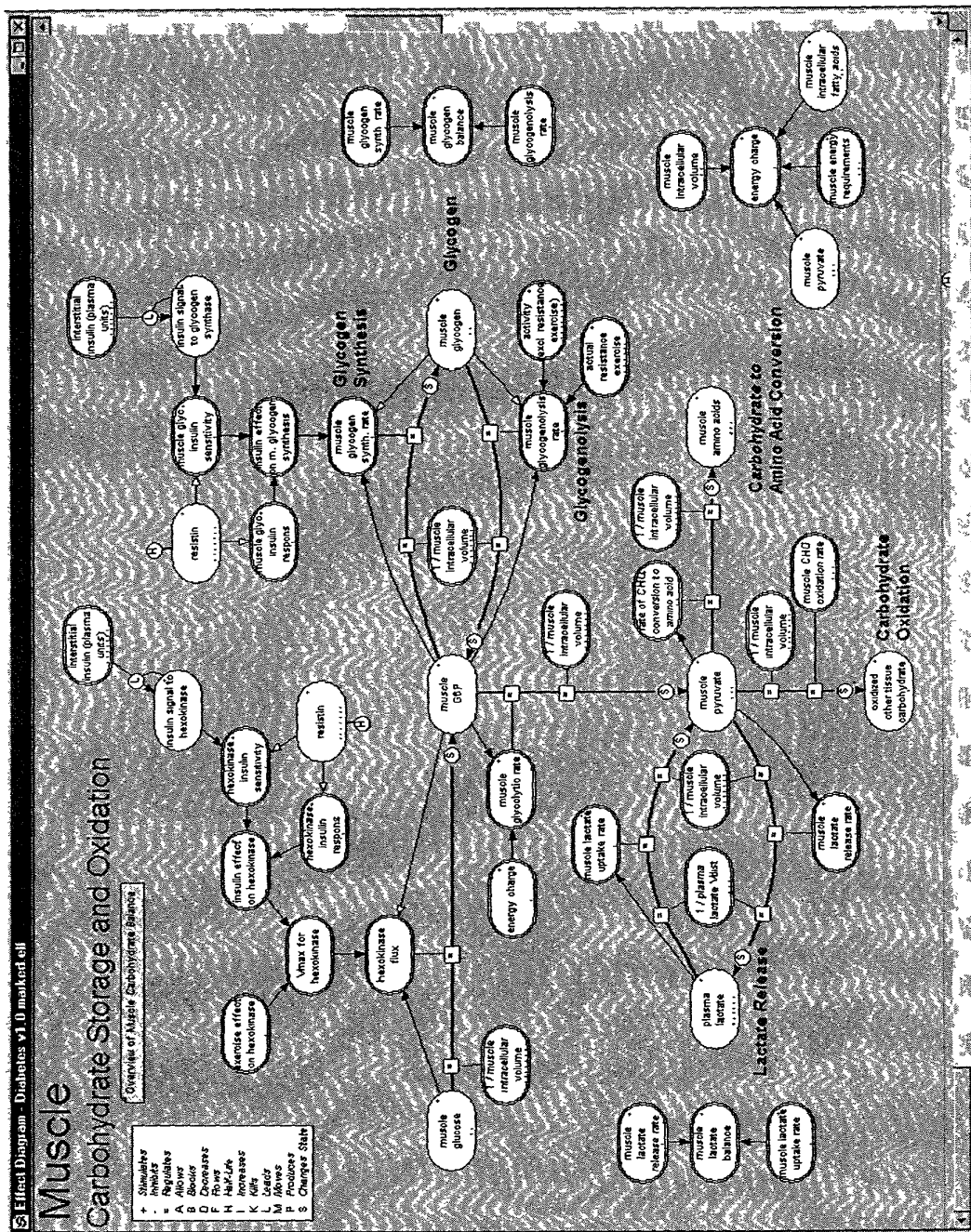


FIG. 4

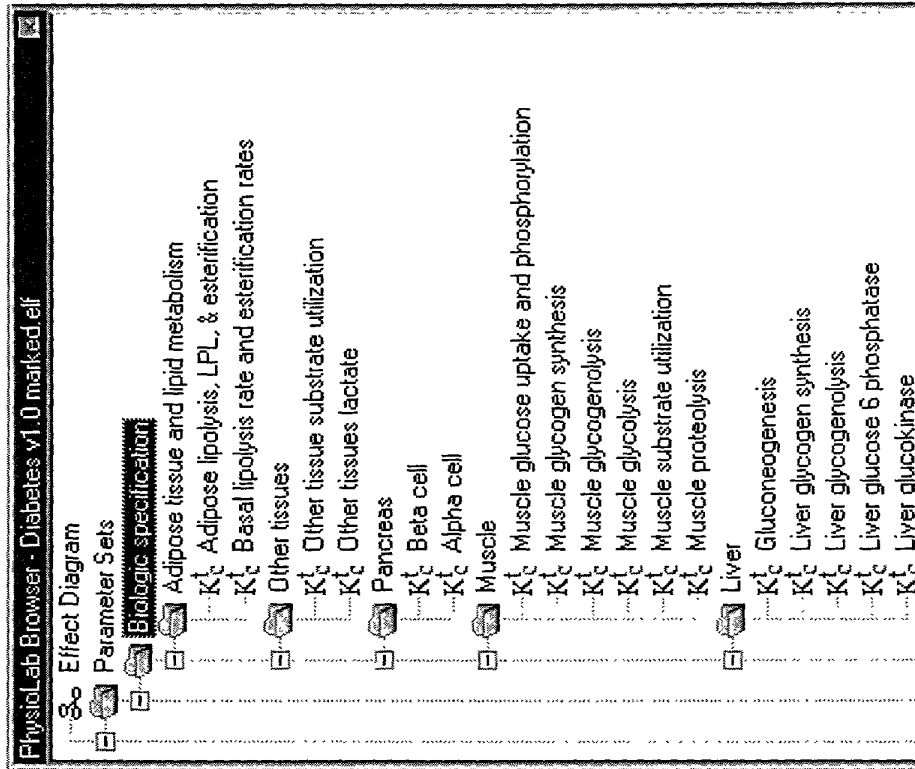


FIG. 5

Parameter Set - Muscle glucose uptake and phosphorylation

Parameter Set Name

Muscle glucose uptake and phosphorylation

Description

This parameter set is used to modify the physiology of the muscle glucose uptake and phosphorylation. In particular, the sensitivity and responsiveness paradigm (see Notes) is used to modify baseline dose-response curves for insulin.

Value Set Name

Moderate diabetic #1

Description

This value set adjusts parametric values pertaining to muscle glucose uptake, thereby reducing the effect of insulin to stimulate glucose uptake in muscle.

Notes... Format...

Type	Location	Parameter	Baseline Value Set	Alternate Value Set #1	Units
	MGU Insulin sensitivity	sensitivity shift	0	20	$\mu\text{U/ml}$
	MGU Insulin respons.	basal responsiveness	1	0.8	normalized
	hexokinase insulin respons.	basal responsiveness	1	20	normalized
	hexokinase insulin sensitivity	sensitivity shift	0		$\mu\text{U/ml}$
	insulin effect on GLUT4 Vmax	effect at low insulin	0.6		normalized
	Diabetes v1.0 marked elf (ED)	basal muscle glucose uptake	28		mg/min

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FIG. 6

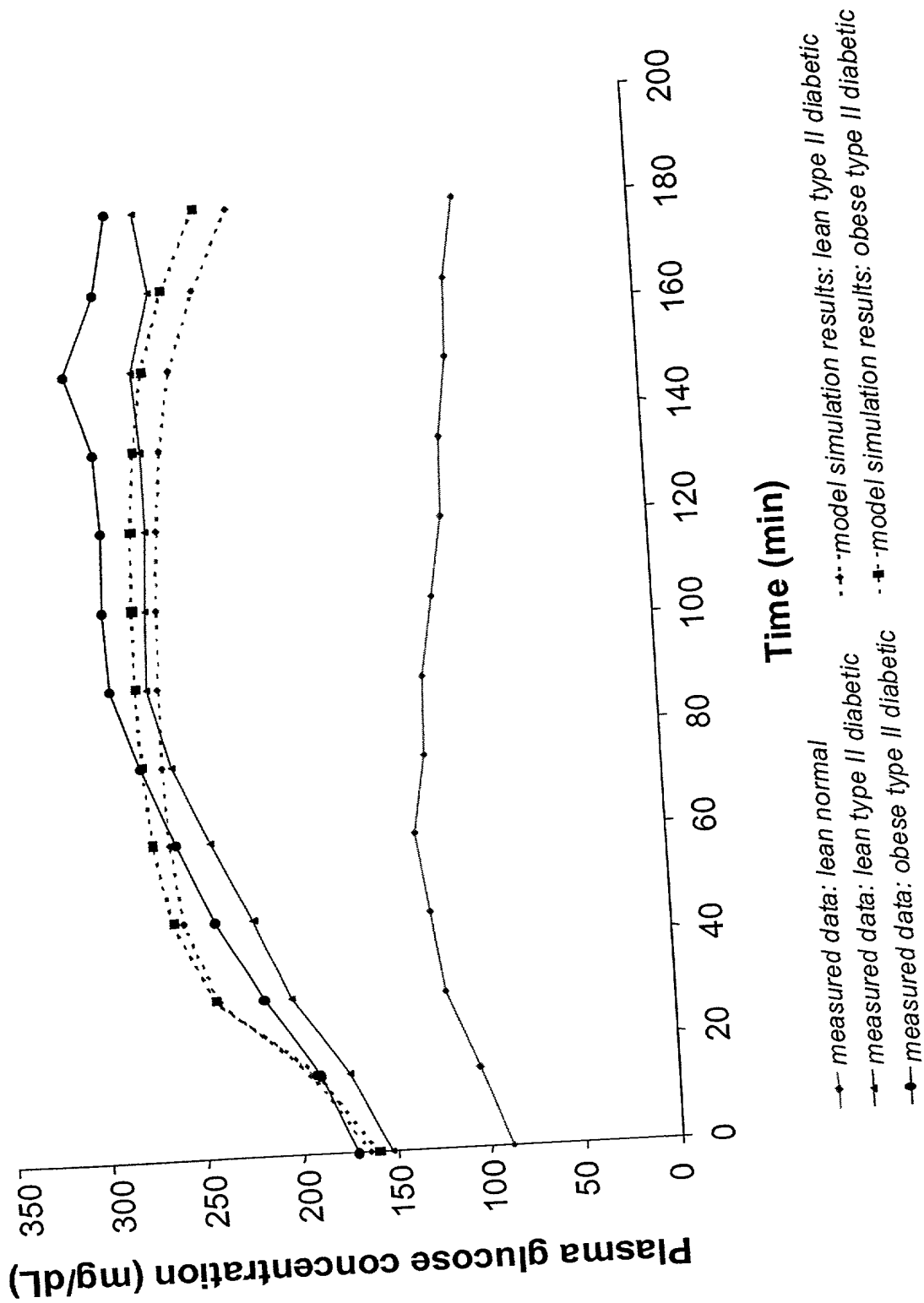
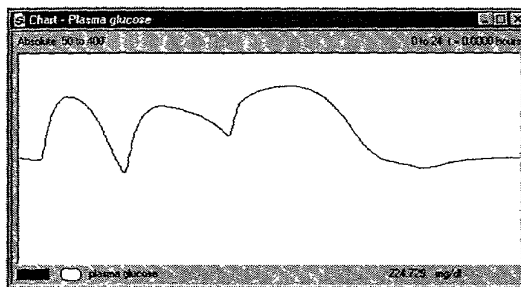
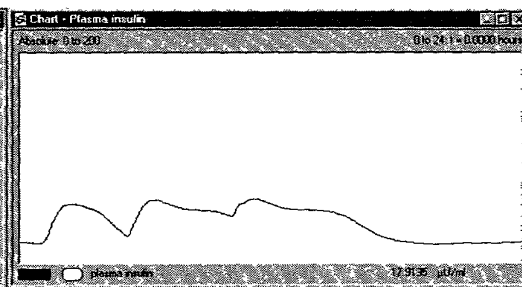


FIG. 7



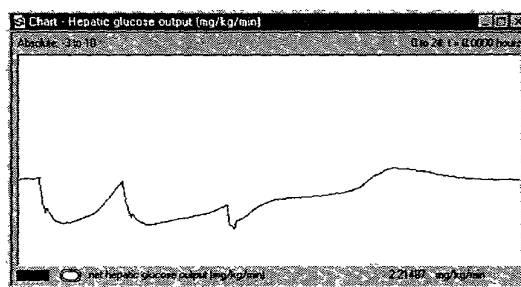
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FIG. 8A



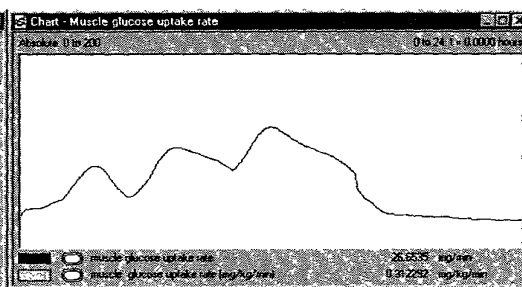
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FIG. 8B



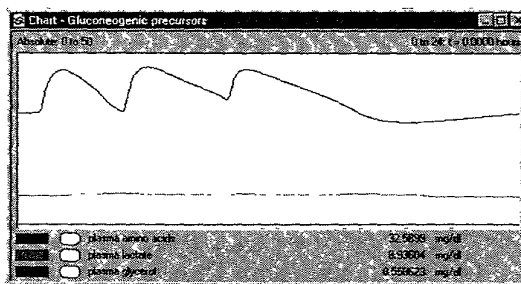
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FIG. 8C



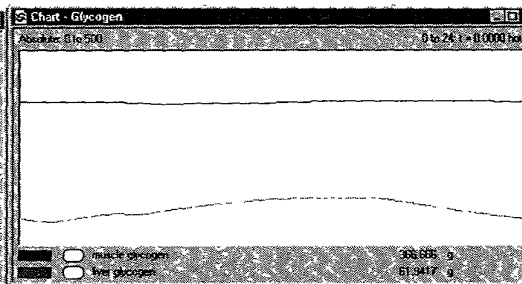
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FIG. 8D



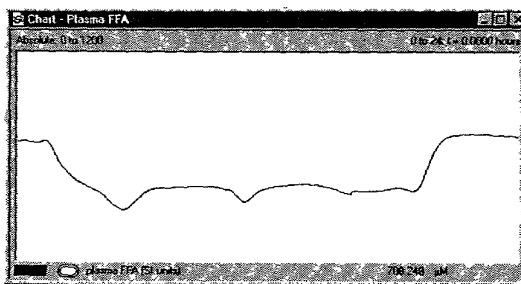
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FIG. 8E



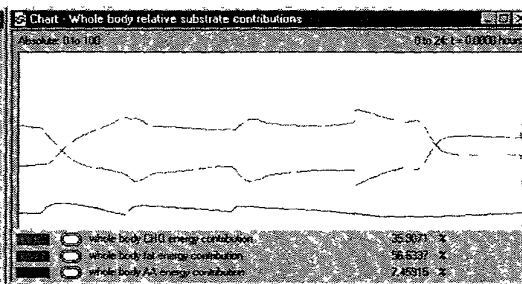
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FIG. 8F



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FIG. 8G



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FIG. 8H

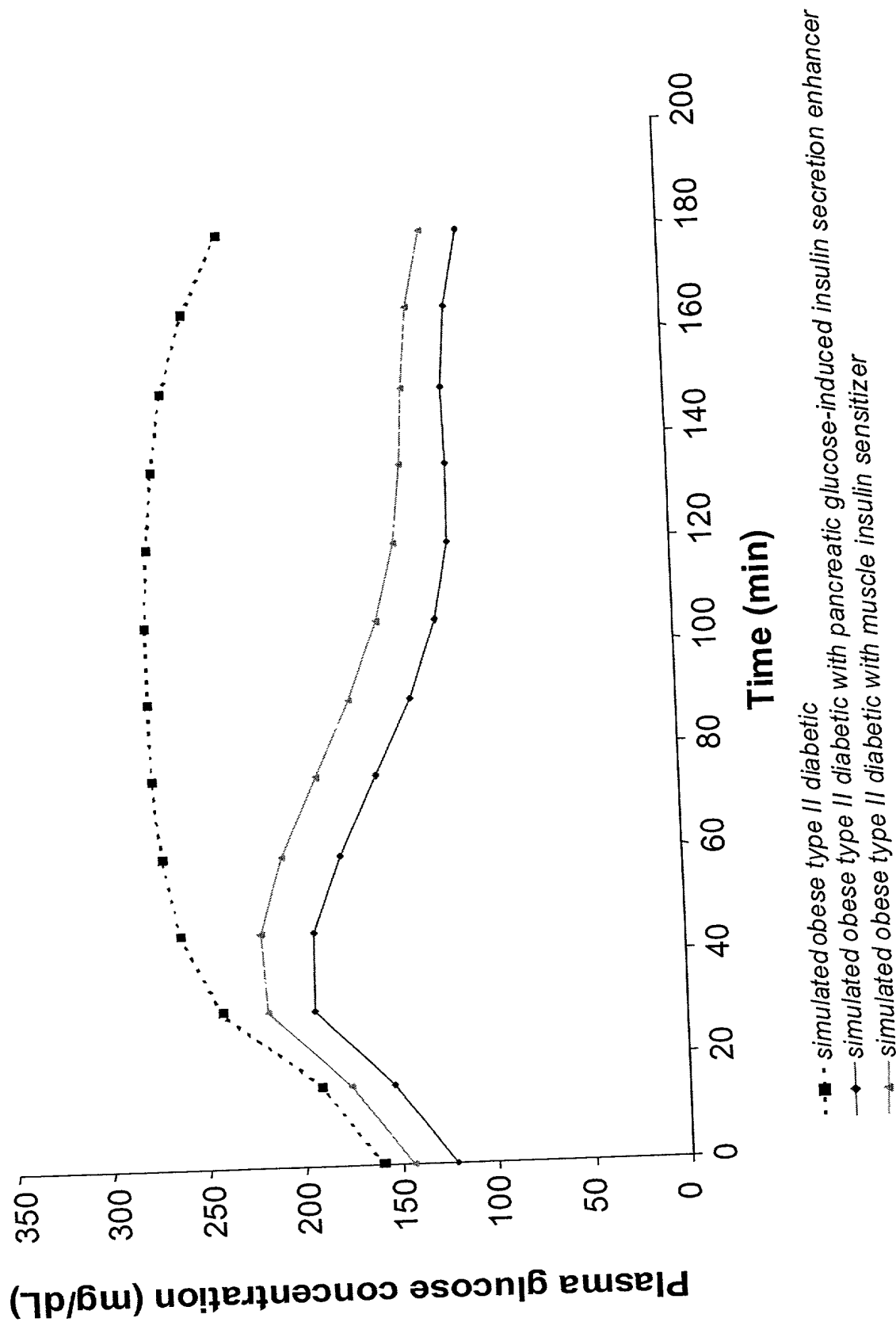


FIG. 9

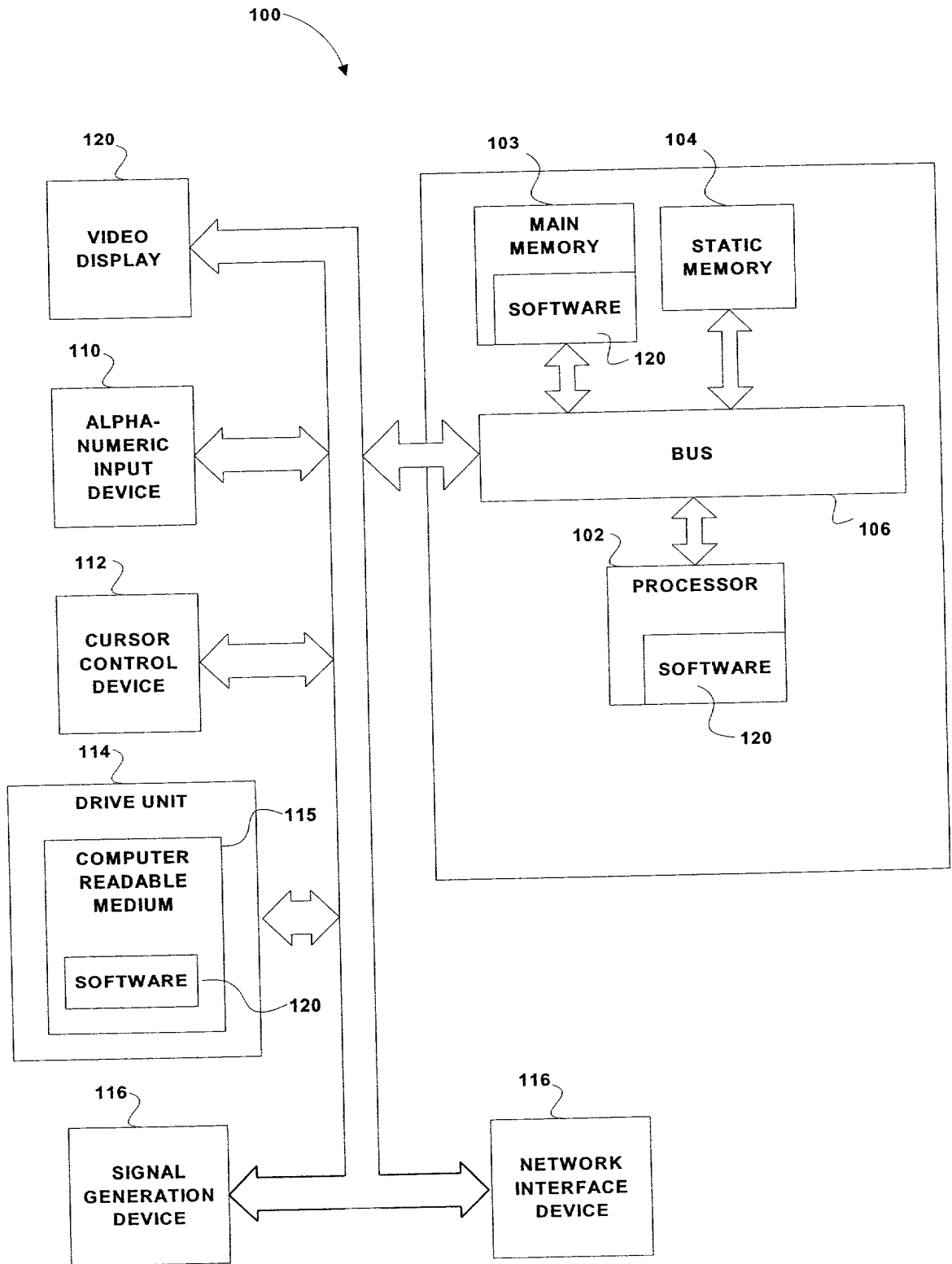
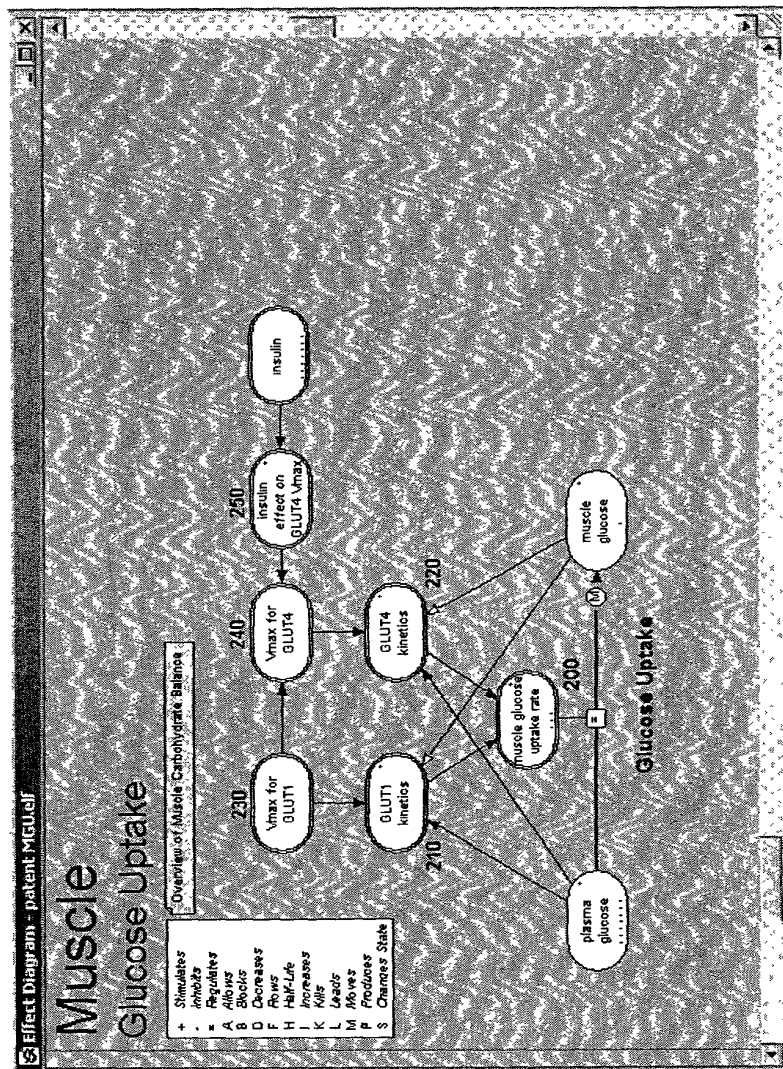


FIG. 10



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FIG. 11

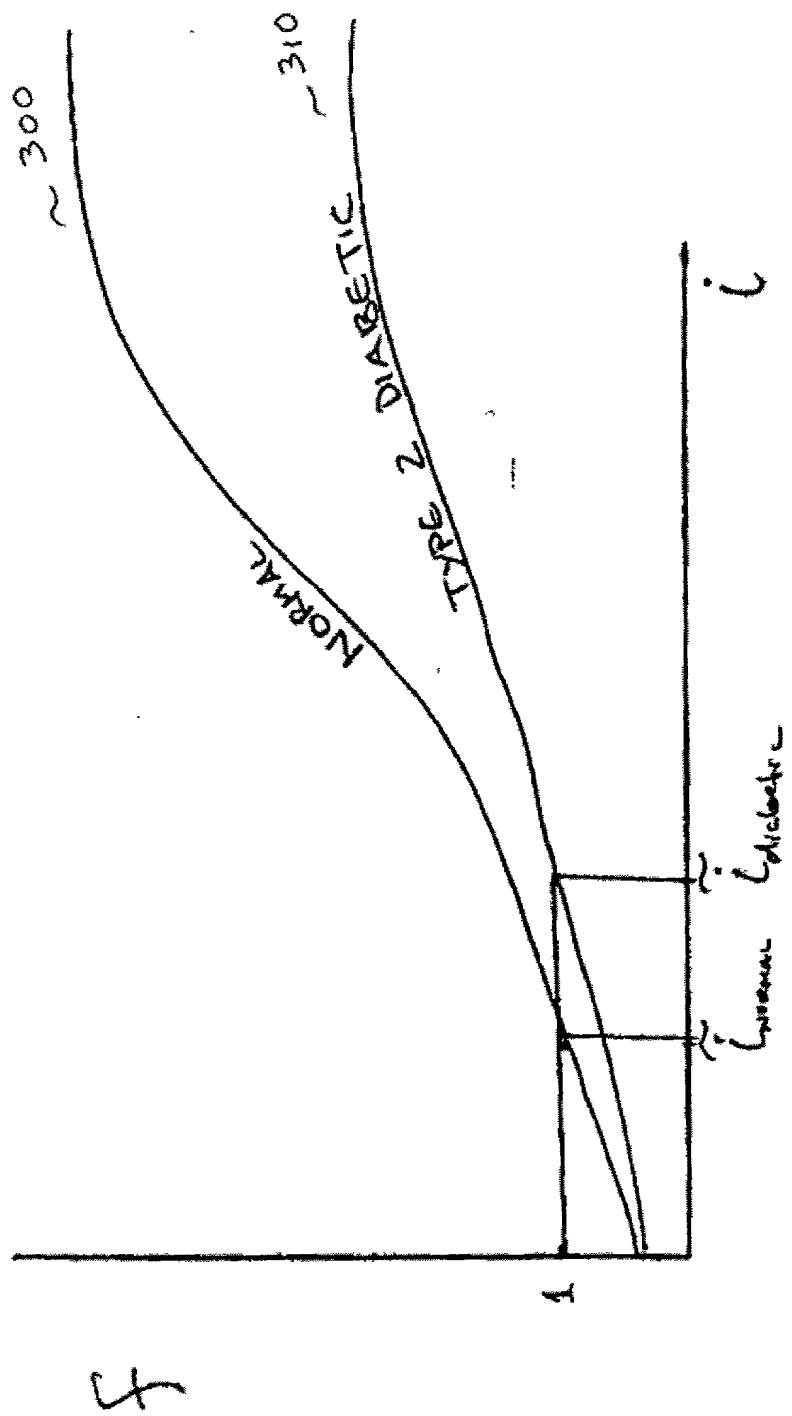


FIG. 12